AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A system for the control of occupancy of available bandwidth for data frames both received and transmitted by way of a port, said system comprising:

a media access control device associated with the port;

means coupled to the media access control device for monitoring frame traffic passing through the port, and providing signals denoting for each frame the size of the frame and its direction relative to the port;

first and second counting buckets for determining whether said traffic is in profile or out of profile;

a transmit control responsive to a first command signal to prevent the supply of transmit frames to the media access control device and said port;

a receive control coupled to the media access control device and responsive to a second command signal to initiate the generation of flow control frames from the port; and

~~and~~mode control means for controlling a relationship between the first and second counting buckets and said command signals, said mode control means defining a duplex mode wherein said token buckets separately control the first and second command signals and a half-duplex mode wherein a single one of said token buckets controls both said first and second command signals.

2. (Currently Amended) A system according to claim 1 ~~and~~further comprising transmit storage space for storing frames destined for transmission from said port, the transmit control preventing the transfer of frames from the transmit storage to the port.

3. (Previously Presented) A system according to claim 1 wherein the receive control initiates a pause frame to be transmitted from the port.

4. (Currently amended) A system for the control of occupancy of available bandwidth for data frames both received and transmitted by way of a port, said system comprising:

a media access control device associated with the port;

means coupled to the media access control device for monitoring frame traffic passing through the port, and providing signals denoting the volumes of frame traffic to and from said port;

first and second token buckets responsive to said signals and to token signals and each including a threshold separating an in profile condition and an out of profile condition;

a transmit control responsive to a first command signal to prevent the supply of transmit frames to the media access control device and port;

a receive control coupled to the media access control device and responsive to a second command signal to initiate the generation of flow control frames from the port; and

~~and~~mode control means for controlling a relationship between the token buckets and said command signals, said mode control means defining a duplex mode wherein said token buckets separately control the first and second command signals and a half-duplex mode wherein a single one of said token buckets controls both said first and second command signals.